

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"10565152"	US-PGPUB; USPAT	OR	ON	2007/03/01 12:17
S2	3271	385/14.ccls.	US-PGPUB; USPAT	OR	ON	2007/02/27 15:30
S3	14	385/14.ccls. and laser same (hollow wholly hole) with core same substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 15:41
S4	275	(laser same (hollow wholly hole) with core same substrate) not S3	US-PGPUB; USPAT	OR	ON	2007/02/27 15:42
S5	108	(laser same (hollow wholly hole) near3 core same substrate) not S3	US-PGPUB; USPAT	OR	ON	2007/02/27 15:54
S6	705	hollow near3 (core waveguide) same substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 15:55
S7	103	hollow near3 (core optical adj waveguide) same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 15:59
S8	7	hollow near3 (optical adj waveguide) same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 16:09
S9	3	"5525190".pn. "5473721". pn. "6090636".pn.	US-PGPUB; USPAT	OR	ON	2007/02/28 10:12
S10	115	(lite light) adj pipe same form \$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 16:27
S11	15	(lite light) adj pipe same form \$3 near5 substrate same (laser lazer)	US-PGPUB; USPAT	OR	ON	2007/02/27 16:14
S13	3	hollow adj (lite light) adj pipe same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/28 08:54
S14	195	(lite light optic\$2) adj channel same form\$3 near5 substrate	US-PGPUB; USPAT	OR	ON	2007/02/27 16:29
S15	147	(lite light optic\$2) adj channel same form\$3 near5 substrate and laser	US-PGPUB; USPAT	OR	ON	2007/02/28 07:46
S17	50	(lite light optic\$2) adj channel same form\$3 near5 substrate and laser same modulat\$4	US-PGPUB; USPAT	OR	ON	2007/02/28 07:46

S18	8	"385".clas. and hollow adj core same (embed\$3 form \$4) same substrate and (substrate same laser)	US-PGPUB; USPAT	OR	ON	2007/02/28 09:00
S19	1	(hollow adj waveguide adj integrated adj optics howio)	US-PGPUB; USPAT	OR	ON	2007/02/28 10:13
S20	1	"5410625".pn.	US-PGPUB; USPAT	OR	ON	2007/02/28 14:43
S21	5	"2003000331"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:49
S22	3	"9942879"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:47
S23	4	"03065091"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 15:02
S24	4	"2003065091"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:46
S26	5	"2003000330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:49
S27	0	"GB2003000330"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:53
S28	0	"09622684"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 14:54

S29	1	"10502847"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 15:03
S30	2	"20050089262"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 15:38
S31	4	"02019693"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 16:09
S32	1	"2002GB-02019693"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/02/28 16:10
S33	0	"0201969.3"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/01 08:09
S34	866	isolat\$ same laser adj source	US-PGPUB; USPAT	OR	ON	2007/03/01 13:00
S35	81	isolat\$ same laser adj source same substrate	US-PGPUB; USPAT	OR	ON	2007/03/01 13:02
S36	10	isolat\$ same reflect\$4 same laser adj source same substrate	US-PGPUB; USPAT	OR	ON	2007/03/01 13:02
S37	105	"385".clas. and plurality near3 detectors same plurality near3 (fiber fibre)	US-PGPUB; USPAT	OR	ON	2007/03/02 15:37
S38	49	("385".clas. and plurality near3 detectors same plurality near3 (fiber fibre)) and @ay< "2000"	US-PGPUB; USPAT	OR	ON	2007/03/02 15:39
S39	1	"5473721".pn.	US-PGPUB; USPAT	OR	ON	2007/11/19 10:49
S40	37	("4199698"   "4639074"   "4701008"   "4725114").PN. OR ("4896930").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 11:17
S41	1	"5525190".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 12:33

S42	496	optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:20
S43	13	385/124.ccls. and optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 12:57
S44	64	385/125.ccls. and optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 13:17
S45	12	385/15.ccls. and optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser and (fiber fibre)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 13:17
S46	29	("4878991"   "4883743"   "5111278"   "5192716"   "5422513").PN. OR ("5737458").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 13:19
S47	24	("356".clas. "385.clas") and waveguide near3 hollow and laser and optic\$2 near3 (fiber fibre) near5 (connect \$3 coupl\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 14:25
S48	50	optic\$2 near3 waveguide and waveguide near3 hollow and laser near5 substrate	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 14:28
S49	1	"5917596".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 14:28
S50	1	"10565152"	US-PGPUB; USPAT	OR	ON	2007/11/19 14:53
S51	118	optic\$2 near3 waveguide and waveguide near3 (hollow tubular) and laser near5 semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:20
S52	111	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:23
S53	72	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:24

S54	0	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor with monolithic and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/19 16:25
S55	13	optic\$2 near3 waveguide and waveguide near3 (hollow) and laser near5 semiconductor with substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 07:37
S56	6	optic\$2 near3 waveguide and (light lite) adj pipe and laser near5 semiconductor with substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:07
S57	1	"10565152"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 07:49
S58	25	"5525190"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 07:49
S59	90	(hollow near3 waveguide (light lite) adj pipe) and laser near5 semiconductor and semiconduct\$3 near5 substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:31
S60	20	(hollow near3 waveguide) and laser near3 semiconductor and semiconduct\$3 near3 substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:34
S61	3	(hollow near3 waveguide) and laser near3 semiconductor and semiconduct\$3 near3 substrate and (silicon adj on adj insulator SOI) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:37
S62	6	(hollow near3 waveguide) and semiconduct\$3 near3 substrate and (silicon adj on adj insulator SOI) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:40
S63	3	((lite adj pipe) hollow near3 waveguide) and semiconduct\$3 near3 (lazer laser) and semiconduct\$3 near3 substrate and (silicon adj on adj insulator SOI) and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:47

S64	19	((lite adj pipe) hollow near3 waveguide) and semiconduct\$3 near3 (lazer laser) and semiconduct\$3 near3 substrate and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:52
S65	131	((lite adj pipe) hollow near3 waveguide tub\$4 near3 optic\$2) and semiconduct\$3 near3 (lazer laser) and semiconduct\$3 near3 substrate and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:00
S66	112	S65 not (S64 S63 S62 S61 S60)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 08:58
S67	112	(tub\$4 near3 optic\$2) and semiconduct\$3 near3 (lazer laser) and semiconduct\$3 near3 substrate and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:02
S68	79	(lazer laser) near5 semiconduct\$3 and semiconduct\$3 near3 substrate and optic\$2 near3 (fiber fibre) and ((lite light) adj pipe waveguide near3 (hollow tub\$4)) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:19
S69	122	"385".clas. and (lazer laser) and substrate and optic\$2 near3 (fiber fibre) and waveguide near3 (hollow tub\$4) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:43
S70	114	S69 not S68	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 09:43
S71	28	"385".clas. and (lazer laser) and substrate near7 semiconductor and optic\$2 near3 (fiber fibre) and (waveguide near5 (hollow tub\$4) hollow near3 (lite light) adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:20
S72	69	(lazer laser) and substrate near7 semiconductor and optic\$2 near3 (fiber fibre) and (waveguide near5 (hollow tub\$4) hollow near3 (lite light) adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:36

S73	41	S72 not S71	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:20
S74	216	(lazer laser) and substrate near7 waveguide near5 (hollow tub\$4) hollow near3 ((lite light) adj pipe) and optic\$2 near3 (fiber fibre) and (waveguide near5 (hollow tub\$4) hollow near3 (lite light) adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 10:38
S75	78	(lazer laser) and substrate near7 waveguide and waveguide near5 hollow and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:19
S76	49	(lazer laser) and substrate near7 waveguide and waveguide near5 capillary and optic\$2 near3 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:56
S77	44	S76 not S75	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:21
S78	1	"20040091211"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:21
S79	186	(lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coupl\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 12:44
S80	153	S79 not (S75 S76)	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 11:57
S81	1	"5515464".pn.	US-PGPUB; USPAT	OR	ON	2007/11/20 12:11
S82	69	(lazer laser) and waveguide near2 hollow and (modulat \$3 near (signal light lite source) ((electro adj optic) near3 modulat\$3)) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 12:54
S83	35	(lazer laser) and waveguide near2 hollow and substrate and (modulat\$3 near (signal light lite source) ((electro adj optic) near3 modulat\$3)) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2007/11/20 12:55
S84	1	"10565152"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/14 08:58

S85	187	(lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coupl\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:18
S86	187	(lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coupl\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:21
S87	54	(plurality multiple) near4 (lazer laser) and waveguide near2 hollow and optic\$2 near3 (fiber fibre) near7 (coupl\$3 connect\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:28
S88	213	(plurality multiple) near4 detector and ((light adj pipe) waveguide near4 hollow) and optic\$2 near3 (fiber fibre) and substrate and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:38
S89	21	(plurality multiple) near4 detector and ((light adj pipe) waveguide near4 hollow) and optic\$2 near3 (fiber fibre) and substrate and (demux demultiplex\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:42
S90	3	(plurality multiple) near4 detector and ((light adj pipe) waveguide near4 hollow) same substrate and optic\$2 near3 (fiber fibre) and (demux demultiplex\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:48
S92	10	(demux demultiplex\$3) same (light adj pipe) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:55
S93	1	(demux demultiplex\$3) same (hollow adj waveguide hollow adj core) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 13:57
S94	420	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow adj waveguide hollow adj core) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:01



S95	88	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow adj waveguide hollow adj core) and substrate with (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:02
S96	100	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:05
S97	91	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and (plurality multiple) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:13
S98	4	(monitor detect\$3 photodetect\$3) and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and (plurality multiple) and (demux demultiplex\$3) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:14
S99	41	laser and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and (fibre fiber) with (plurality multiple) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:22
S100	1	laser and substrate same ((lite light) adj pipe hollow near3 waveguide hollow near3 core) and substrate with (fiber fibre) and electro adj optic\$2 near2 modulat\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:26

S101	1	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate with (fiber fibre) and electro adj optic\$2 near2 modulat\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:31
S102	2	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and electro adj optic\$2 near2 modulat\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:32
S103	175	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:36
S105	4	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and electro near3 optic\$2 near3 modulat\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:39
S106	7	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and electro near3 optic\$2 near3 modulat\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:41
S107	6	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and electro near3 optic\$2 near3 modulat\$3 and (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 14:51
S108	142	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 16:14

S109	64	laser and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate near5 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 16:15
S110	33	laser and substrate same (hollow near3 (guide waveguide) hollow near3 core) and substrate near5 (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/14 16:15
S111	1505	(lens grin) near3 (fiber fibre) same (channel hollow near3 waveguide hollow adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:53
S112	17	(lens grin) near3 (fiber fibre) same (hollow near3 waveguide hollow adj channel)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:53
S113	1436	(lens grin) near3 (fiber fibre) with substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:55
S114	24	(lens grin) near3 (fiber fibre) with substrate with channel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 08:55
S115	50	(grin graded adj index) near3 (fiber fibre) near7 substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 09:00
S116	66	(grin graded adj index) near2 (fiber fibre) near5 (advantage\$4 benefit)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 09:06
S117	50	(grin graded adj index) near2 (fiber fibre) near5 (advantage\$4 benefit)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:07
S118	57	(grin graded adj index) near2 (fiber fibre) near5 dispersion	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:10

S119	25	laser near3 semiconductor and substrate same ((lite light) adj pipe hollow near3 (guide waveguide) hollow near3 core) and substrate same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:15
S120	27	laser near3 semiconductor and substrate same ((lite light) adj pipe hollow near3 (guide waveguide channel) hollow near3 core) and substrate same (fiber fibre) and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 09:17
S121	127	"39843"	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 10:39
S122	1	"3984332".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 10:39
S123	137	semiconductor adj laser near5 (tuneable adjustable)	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 11:14
S124	17	semiconductor adj laser near5 (tuneable adjustable) near3 wavelength	US-PGPUB; USPAT; USOCR	OR	ON	2008/08/15 11:14
S126	3	"3984332".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 11:24
S128	188	taper\$3 near4 hollow near4 (channel waveguide)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 11:36
S129	15	taper\$3 near4 hollow near4 (channel waveguide core) same substrate	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 11:36
S132	18	hollow near4 (core waveguide channel) same laser and (soi silicon adj on adj insulator)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 14:42
S133	2	"5515464".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:12

S134	2536	soi with buried adj oxide adj layer	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:18
S135	60	soi with buried adj oxide adj layer same light	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:18
S136	6	soi with buried adj oxide adj layer same light near3 confin \$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/08/15 15:19
S137	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2009/03/12 12:16
S138	1	"5525190".pn.	US-PGPUB; USPAT	OR	ON	2009/03/12 13:12
S139	1	"5515464".pn.	US-PGPUB; USPAT	OR	ON	2009/03/12 14:05
S140	618	hollow near2 waveguide same fiber	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:54
S141	342	hollow near2 waveguide same fiber and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:54
S142	187	hollow near2 waveguide near7 fiber and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:54
S143	1	hollow near2 waveguide near7 fiber near2 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:55

S144	0	hollow near2 waveguide near5 substrate same fiber near2 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:55
S145	9	(channel hollow) near2 waveguide near5 substrate same fiber near2 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:56
S146	6	hollow near2 waveguide same fiber near3 connect\$3 and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 08:57
S147	28	("5015059"   "5046808"   "5071215"   "5097524"   "5280550"   "5287424"   "5323476").PN. OR ("5515464").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 08:58
S148	33	("20020102059"   "20020191907"   "20030035613"   "20030090776"   "4068920" "4453803"   "4973127"   "5195154"   "5279354"   "5379354"   "5410625"   "5428698"   "5473721"   "5475776"   "5515464"   "5562838"   "5611008"   "5632908"   "5675603"   "5737458"   "5917596"   "6002514"   "6090636"   "6137941"   "6163643"   "6198857"   "6219470"   "6315462"   "6340605"   "6501869"   "6640021"   "6819825"   "6839478").PN. OR ("7428351").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 09:10
S149	1	"5525190".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 09:15
S150	3	hollow near2 waveguide same fiber near3 secur\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/03/13 09:27
S151	1	"5926599".pn.	US-PGPUB; USPAT	OR	ON	2009/03/13 10:17

S152	44	("4209229"   "4725110"   "4778242"   "4830448"   "4865414"   "5042898"   "5080962"   "5243680"   "5246890"   "5281560"   "5367589"   "5426714"   "5470804"   "5500917"   "5516733"   "5602949"   "5682453"   "5694503"   "5721802"   "5757540").PN. OR ("5926599").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 10:20
S153	362	v near2 groove near6 fiber same epoxy	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:00
S154	40	v near2 groove near6 fiber near2 end same epoxy	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:00
S155	40	v near2 groove near6 fiber near2 end same epoxy and @ad< + 20030728	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:06
S156	22	v near2 groove near6 fiber near2 end same epoxy and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:06
S157	12	v near2 groove same fiber same epoxy near2 match\$3 and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:14
S158	1	"10565152"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:20
S159	629	v near2 groove same fiber same lens and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27
S160	377	v near2 groove same fiber near5 lens and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27
S161	146	v near2 groove near7 fiber near5 lens and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27
S163	70	v near2 groove near7 fiber near5 lens same substrate and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:27
S164	18	v near2 groove same grin near2 fiber and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:32
S165	2	semiconductor near2 substrate same grin near2 fiber and @ad< = "20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 11:34
S166	159	transceiver same laser and lidar	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:34
S167	0	transceiver same laser and lidar and transmitter near5 receiver near6 substrate	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:34

S168	0	laser and lidar and transmitter near5 receiver near6 substrate	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:34
S169	3	transceiver near2 package same laser and lidar	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:35
S170	6	transceiver near2 module same laser and lidar	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:35
S171	54	transceiver same laser and lidar and @ad<="20030728"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:36
S172	1	"5917596".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 14:58
S173	380	taper\$3 near4 waveguide and waveguide near4 hollow	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:22
S174	67	taper\$3 near4 hollow near4 waveguide	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:22
S175	26	taper\$3 near4 hollow near4 waveguide and optic\$2 near2 waveguide	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:23
S176	1	"4583539".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/13 15:28
S177	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2009/07/16 14:35
S178	1	"6934448".pn.	US-PGPUB; USPAT	OR	ON	2009/10/09 14:01
S179	1	"6934448".pn.	US-PGPUB; USPAT	OR	ON	2009/10/09 15:42
S180	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2009/11/10 16:13
S181	10728	semiconductor adj (laser lazer) same wavelength and semiconductor adj (laser lazer) same (power watt\$5 " w ")	US-PGPUB; USPAT	OR	ON	2009/11/10 16:16
S182	3504	semiconductor adj (laser lazer) same high adj power	US-PGPUB; USPAT	OR	ON	2009/11/10 16:17
S184	153	semiconductor adj (laser lazer) same high adj power and doppler	US-PGPUB; USPAT	OR	ON	2009/11/10 16:17
S185	119	semiconductor adj (laser lazer) same high adj power and doppler and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:18
S186	0	semiconductor adj (laser lazer) same high adj power and 1060nm and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:20
S187	0	semiconductor adj (laser lazer) same 1060nm and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:20



S188	129	semiconductor adj (laser laser) same "1060" and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:20
S189	69	semiconductor adj (laser laser) same "1060" and (watt \$4 " w") and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:21
S190	13	semiconductor adj (laser laser) same "1060" and (watt \$4) and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:24
S191	1186	semiconductor adj (laser laser) same tunable and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:26
S192	31	semiconductor adj (laser laser) same tunable and doppler and @ad<="20030728"	US-PGPUB; USPAT	OR	ON	2009/11/10 16:26
S193	1	"5917596".pn.	US-PGPUB; USPAT	OR	ON	2010/03/08 13:32
S195	0	(laser and modulat\$3 same information and hollow same waveguide same optic\$2). clm.	US-PGPUB; USPAT	OR	ON	2010/03/08 13:49
S196	0	(laser and modulat\$3 same information and hollow same waveguide same optic\$2). clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/03/08 13:49
S197	2	"5917596".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 10:39
S198	2	"6934448".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 11:48
S199	8	((laser laser) and hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct \$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 11:58
S200	9	(hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct \$3).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/02 12:29

S203	3	("5195154"   "6456766").PN. OR ("6944377").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 13:01
S205	19349	((laser laser) near2 diode vcsel (vertical adj cavity adj surface adj emitting adj (laser laser)) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 13:11
S206	1	((laser laser) near2 diode or vcsel or vertical adj cavity adj surface adj emitting adj (laser laser) or (laser laser)) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon). clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:23
S207	1	((laser laser) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/11 13:25
S208	1	((laser laser) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:25
S209	1	((laser laser) and (alter\$3 chang\$3 modulat\$3) and hollow near2 waveguide and silicon).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/11 13:25
S210	140	"385".clas. and hollow near5 waveguide and (attenuat\$3 modulat\$3) and laser and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:50
S211	140	"385".clas. and hollow near5 waveguide and (attenuat\$3 modulat\$3) and (vcsel laser) and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:51
S212	60	"385".clas. and hollow near5 waveguide and (attenuat\$3 modulat\$3) and (vcsel laser) and silicon and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:51

S213	3	(hollow near5 waveguide and modul\$3 and (vcSEL laser) and silicon).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 14:59
S214	5	(hollow near5 waveguide and modul\$3 and (vcSEL laser) and electro near2 optic).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/16 15:13
S215	62	"385".clas. and hollow near5 (channel waveguide) and (attenuat\$3 modul\$3) and (vcSEL laser) and silicon and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/17 08:16
S216	159	"385".clas. and hollow near5 (channel waveguide) and (attenuat\$3 modul\$3) and (vcSEL laser) and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/17 08:24
S217	93	"385".clas. and hollow near5 (channel waveguide) and (attenuat\$3 modul\$3) and (vcSEL laser) and (semiconduct\$3 silicon) and @ad<="20030728"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/08/17 09:16
S218	1	"5428698".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/24 09:14
S219	1	"5410625".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/08/24 09:18

**EAST Search History (Interference)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S201	3	((laser laser) and hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct\$3).clm.	USPAT; UPAD	OR	ON	2010/08/02 12:28
S202	3	(hollow near4 waveguide and (receiv43 detect\$3) and (fibre fiber) and semiconduct\$3).clm.	USPAT; UPAD	OR	ON	2010/08/02 12:29

**8/ 31/ 2010 10:23:16 AM**
**C:\ Documents and Settings\ csmith2\ My Documents\ EAST\ Workspaces\ 10565152 (optical transmitter and receiver apparatus incorporating hollow waveguides).wsp**